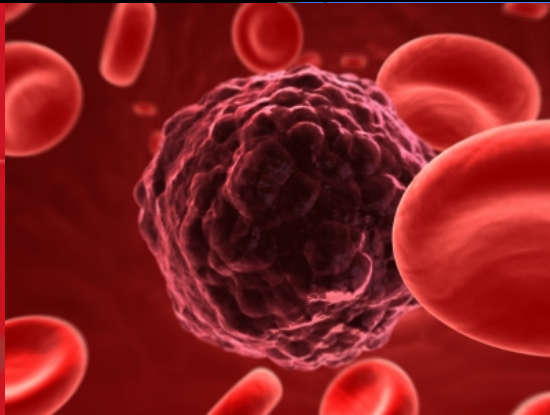


NORTH CAROLINA STATE UNIVERSITY

Office of Technology Transfer

putting ideas to work



Dr. Rob Whitehead
Associate Director, Office of Technology Transfer

March 2008

NORTH CAROLINA STATE UNIVERSITY

INNOVATION IN ACTION

- Research Extensive, Land-grant University
- Bachelor's degrees offered in 102 fields; master's degrees in 108 fields; and doctoral degrees in 60 fields
- 31,000 Graduate & Undergraduate Students
- 1,800 Faculty
- Ten Colleges: Agriculture and Life Sciences, Design, Education, Engineering, Humanities and Social Sciences, Management, Natural Resources, Physical and Mathematical Sciences, Textiles, Veterinary Medicine
- Total Sponsored Research Expenditures: **\$331M**

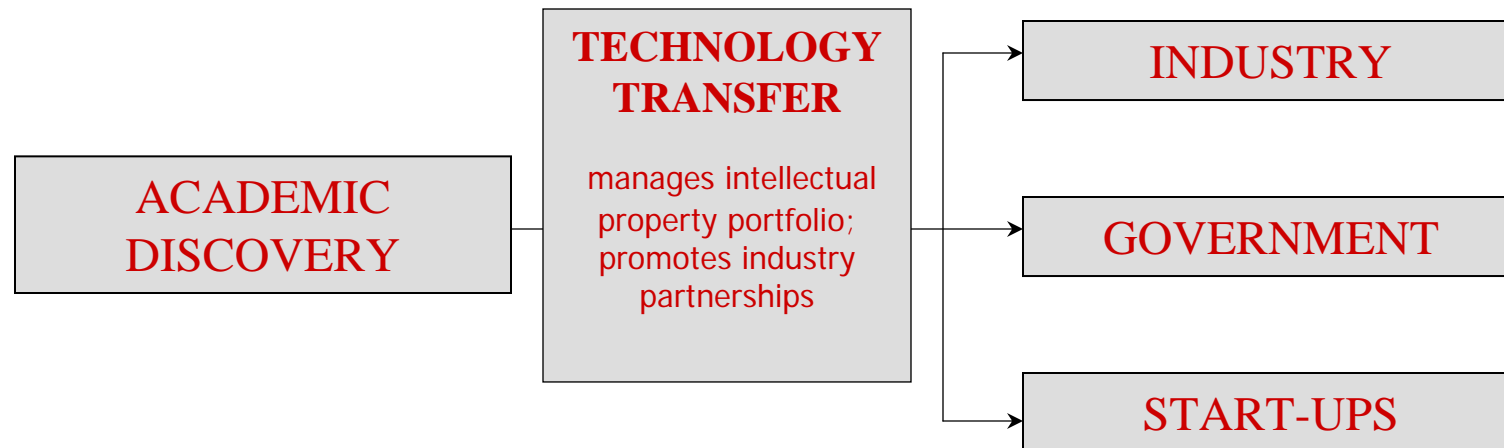
NC State: a nationally recognized leader in science and technology with historic strengths in agriculture and engineering

INNOVATION IN ACTION

NORTH CAROLINA STATE UNIVERSITY

OFFICE OF TECHNOLOGY TRANSFER

Research at NC State yields discoveries that have the potential of adding significant value to society. The Office of Technology Transfer's mission is to move academic discovery to the marketplace resulting in new products, processes, and companies.



INNOVATION IN ACTION

NORTH CAROLINA STATE UNIVERSITY

TECHNOLOGY TRANSFER ACTIVITY

- Patents Issued to NC State in 2007: 43
- U.S. Patents Issued to date: 600
- Licenses/Options Executed in 2007: 106
- Start-Up Companies Created in 2007: 5
- Start-Up Companies Created to date: 68
- Commercially Available Products to Date: 100+



INNOVATION IN ACTION

NORTH CAROLINA STATE UNIVERSITY

CENTENNIAL CAMPUS

NC State's Centennial Campus is an innovative research park, allowing university, industry and government partners to work in close proximity, maximizing the potential for technology transfer. These partnerships allow corporate and government entities to tap into NC State's strengths in cutting-edge research across multidisciplinary fields.

- Top Science Research Park of 2007 (AURP)
- 1,334 acres with \$620M invested in facilities & infrastructure to date
- 61 corporate and government partners
- 73 NC State research centers, institutes, laboratories and department units
- 1,600 corporate & government employees work alongside NC State researchers
- 2.7 million sq. ft. of space constructed in 25 major buildings
- Technology Incubator located on Centennial Campus: 18,000 sq ft. of offices and 10 wet chemistry laboratories



NORTH CAROLINA STATE UNIVERSITY

CENTENNIAL CAMPUS COLLABORATIVE CULTURE

Centennial Campus is designed to encourage collaboration and innovation through environment, geography, and culture.

Mutual benefits:

- Access to state-of-the-art /shared equipment that is otherwise cost-prohibitive to smaller companies
- Sponsored research opportunities
- Faculty consulting
- Student interns that often become full time employees
- University amenities such as libraries, laboratories, cultural events, lectures, & sporting events



INNOVATION IN ACTION

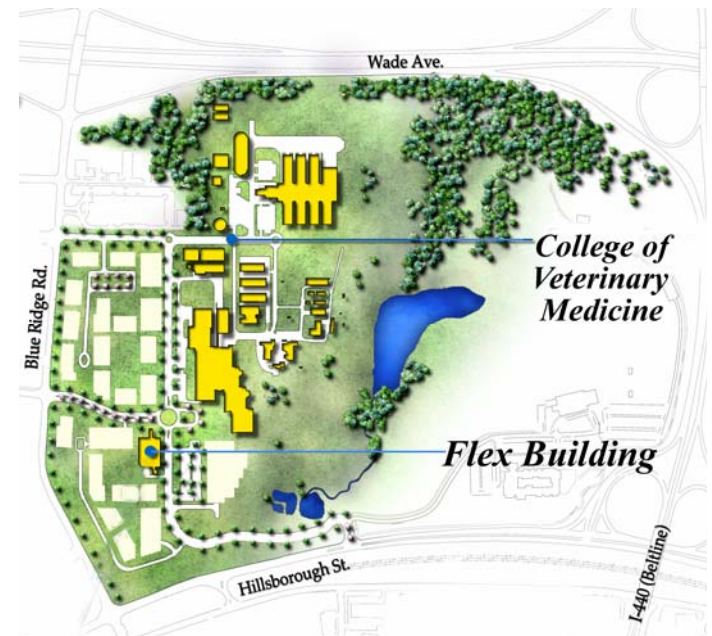
NORTH CAROLINA STATE UNIVERSITY

CENTENNIAL BIOMEDICAL CAMPUS

NC State's Centennial Biomedical Campus (CBC) is anchored by the College of Veterinary Medicine and fosters partnerships among the University, government and industry focusing on biomedical applications, related to both animals and humans.

Master Planned Development:

- 200 acres of land; 32 building sites
- Construction of 1.6 million square feet of space over the next 25 years
- The Flexible Biological Sciences Laboratory building (Flex lab) will total 47,500 square feet
- Flexible tenant suite sizes can accommodate both small and large laboratory/office requirements.



NORTH CAROLINA STATE UNIVERSITY

INDUSTRY/UNIVERSITY COLLABORATION

- Erimos Pharmaceuticals is a biopharmaceutical company focused on the discovery, development and commercialization of molecular therapeutics to treat cancer, viral and autoimmune diseases.
- Erimos' corporate and R&D offices located to Centennial Campus (satellite offices in Houston, Singapore and Mexico).
- Erimos and NC State's Department of Microbiology collaborate regarding the study of derivatives of nordihydroguaiaretic acid (NDGA)

Working toward a brighter day...

developing medicines for people worldwide.



NORTH CAROLINA STATE UNIVERSITY

INDUSTRY/UNIVERSITY COLLABORATION: RESULTS

- Researchers believe the properties of Erimos' lead drug compound EM-1421, which is currently in clinical trials for treatment of malignant tumors, could also be utilized in the treatment of certain infectious diseases like influenza.
- Erimos continues to engage in academic discovery by sponsoring NC State research, leading to 4 new intellectual property (IP) disclosures in 2006.
- April 2006, Erimos and NC State file a joint patent for use of Erimos product, EM-1421

Working toward a brighter day...

developing medicines for people worldwide.



NORTH CAROLINA STATE UNIVERSITY

SUMMARY

- NC State is committed to contributing to the greater public good through innovation and discovery. We do this through education, intensive research, and engagement.
- The Office of Technology Transfer supports this mission by transferring NC State's discoveries to the marketplace for further development and commercialization with an ultimate goal of improving lives.
- One of NC State's innovative strategies has culminated in Centennial Campus, a unique research park where industry, government, and academic entities collaborate successfully.
- The partnership between Erimos Pharmaceuticals and NC State researchers illustrates the impact of our collaborative culture.
- QUESTIONS?



INNOVATION IN ACTION

NORTH CAROLINA STATE UNIVERSITY

CONTACT US:

Office of Technology Transfer

Website: www.ncsu.edu/ott

Phone: 919. 515. 7199

Email: techtransfer@ncsu.edu

Dr. Rob Whitehead, Associate Director

Office of Technology Transfer

rob_whitehead@ncsu.edu

919. 515. 7199

INNOVATION IN ACTION

NORTH CAROLINA STATE UNIVERSITY

- [Batalia](#)

An abstract graphic consisting of several white rectangular outlines of varying sizes and orientations, arranged in a way that suggests a staircase or a series of interconnected steps. The graphic is positioned in the lower right corner of the red footer bar.

INNOVATION IN ACTION